

ABSTRACT

An object of the present invention is to provide a cooling system for a work machine including a sound insulating/flow regulating plate that is capable of coping with different types and operating conditions of a work machine.

An upper cover 3a is provided above a cooling package 21 that comprises a heat exchanger unit 11 and a cooling fan 12. A side door 3b is provided at one side of the upper cover 3a and faces the cooling package 21. Upper air intake holes 6 open to the space between the side door 3b and the cooling package are formed in the upper cover 3a. Side air intake holes 7 are formed in the side door 3b, at a location adjacent to the upper cover 3a. A sound insulating/flow regulating plate 27 is swingably mounted by hinges 26 that are disposed between the upper air intake holes 6 and the side air intake holes 7. The sound insulating/flow regulating plate 27 is designed so that its inclination angle is automatically controlled to achieve a balance between wind pressures from flows of air introduced from the upper air intake holes 6 and the side air intake holes 7, thereby blocking sound generated inside the machine body and regulating the flow of air introduced from the upper air intake holes 6 and the side air intake holes 7.